

School Management System Project Outline

Objective: Develop a basic school management system that allows for the management of students, lecturers, courses, and enrollments.

Features

1. Student Management

- **Add New Students:** Capture details like name, age, address, gender, birth certificate document and student ID.
- **View All Students:** Display a list of all students with their details.
- **Update Student Information:** Edit existing student details.
- **Delete a Student:** Remove a student from the system.

2. Lecturer Management

- **Add New Lecturers:** Capture details like name, age, address, gender, and lecturer ID.
- **View All Lecturers:** Display a list of all lecturers with their details.
- **Update Lecturer Information:** Edit existing lecturer details.
- **Delete a Lecturer:** Remove a lecturer from the system.

3. Course Management

- **Add New Courses:** Capture details like course name, course code, and course description.
- **View All Available Courses:** Display a list of all courses.
- **Update Course Information:** Edit existing course details.
- **Delete a Course:** Remove a course from the system.

4. Enrollment Management

- **Enroll Students in Courses:** Associate students with courses.
 - **View All Enrollments for a Student:** Display courses a particular student is enrolled in.
 - **View All Students Enrolled in a Specific Course:** Display students enrolled in a particular course.
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User Stories

1. **As an admin,** I want to add new students to keep track of all enrolled students.
2. **As an admin,** I want to view a list of all students to manage their information easily.

3. **As an admin**, I want to add new lecturers to track all teaching staff.
 4. **As an admin**, I want to view a list of all lecturers for easy management.
 5. **As an admin**, I want to add new courses for student enrollment.
 6. **As an admin**, I want to assign lecturers to specific courses.
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Technology Stack Suggestions

- **Frontend:**
 - **HTML** and **CSS** for structure and styling.
 - **React** for building user interfaces.
 - **Tailwind CSS** for utility-first styling to enhance design efficiency.
- **Backend:**
 - **Node.js** with **Express** to handle API requests and manage server-side logic.
- **Database:**
 - **MySQL** for relational data management, storing students, lecturers, courses, and enrollments.
- **Version Control:**
 - **GitHub** for source code management and collaboration.

Additional Features

Including additional features will enhance the project and add more points to the candidates, making their application more competitive.